

JCO4 Rec'd PCT/PTO 24 OCT 2005

Attorney's Docket No.: 06618-882US1/CIT-2749-C-CIP-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ara Chutjian, Murray R.
Darrach
Serial No.: 10/534,643
Filed : May 11, 2005
Title : CHEMICAL SENSOR SYSTEM

Art Unit: Unknown
Examiner: Unknown
Conf. No.: 7105

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants call attention to the attached Information Disclosure Statement and documents listed on form PTO-1449.

This filing is being made before the receipt of a first Office action on the merits. No fee is required.

The documents are in the English language; hence no concise explanation is necessary per Rule 98(a)(3).

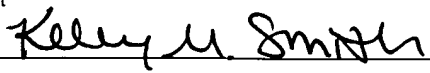
Consideration of the foregoing and enclosures plus the return of a copy of the enclosed form PTO-1449 with the Examiner's initials in the left column per MPEP 609 are earnestly solicited along with an early action on the merits.

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Respectfully submitted,

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 06618-882US1	Application No. 10/534,643
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Ara Chutjian, Murray R. Darrach	
		Filing Date May 11, 2005	Group Art Unit Unassigned

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,649,278	March 1987	Chutjian et al.			
	AB	4,698,071	October 1987	Elias			
	AC	4,711,765	Dec 1987	Cates et al.			
	AD	4,814,613	March 1989	Fite et al.			
	AE	4,933,551	June 12, 1990	Bernius			
	AF	5,313,061	May 1994	Drew et al.			
	AG	5,459,315	Oct 17, 1995	Waki			
	AH	6,300,625	Oct. 2001	Ishihara, Morio			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AI	89/12315	12/14/89	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AJ	Bernius, et al., "Application of Reversal Electron Attachment for Ultrasensitive Detection of Thermal Electron-Attaching Molecules: CCl ₄ and C ₆ H ₅ NO ₂ ", <u>Anal. Chem.</u> , 62(13): 1345-1349 (1990)
	AK	Bernius, et al., "Pulsed, high-current, in-line reversal electron attachment detector", <u>J. Appl. Phys.</u> , 66(7): 2783-2788 (Oct., 1989)
	AL	Bielajew, A.F. and D.W.O. Rogers, "PRESTA: The Parameter Reduced Electron-Step Transport Algorithm for Electron Monte Carlo Transport," <u>Nuclear Instruments & Methods in Physics Research B18</u> : 165-181 (1987)
	AM	Boumsellek, et al., "Increased Response of the Reversal Electron Attachment Detector and Modeling of Ion Space-charge Effects", <u>Anal. Chem.</u> , 64(18): 2096-2100, (Sept., 1992)
	AN	Boumsellek, et al., "Negative-Ion Formation in the Explosives RDX, PETN, and TNT By Using the Reversal Electron Attachment Detection Technique", <u>J. Am. Soc. Mass Spectrom.</u> , 3: 243-247 (1992)
	AO	Bruins, "Developments in Interfacing Microbore High-performance Liquid Chromatography with Mass Spectrometry (A Review), <u>Journal of Chromatography</u> , 323: 99-111 (1985)
	AP	Chutjian et al., "Electron attachment to molecules at low electron energies," <u>Physics Reports</u> 264: 393-470 (1996)
	AQ	Dahl et al., "SIMION PC/PS2 electrostatic lens design program," <u>Rev. Sci. Instrum.</u> 61(1): 607-609 (1990)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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Other Documents (include Author, Title, Date, and Place of Publication)		
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	AR	Dejarne, et al., "Jet Separator/Membrane Introduction Mass Spectrometry for On-line Quantitation of Volatile Organic Compounds in Aqueous Solution", <u>Rapid Communications in Mass Spectrometry</u> , 7:935-942 (1993)
	AS	Fernandez de la Mora et al., "Aerodynamic focusing of heavy molecules in seeded supersonic jets", <u>J. Chem. Phys.</u> , 91(4): 2603-2615 (Aug., 1989)
	AT	Fink et al., "A method for rapid calculations of electron trajectories in multi-element electrostatic cylinder lenses," <u>Rev. Sci. Instrum.</u> 51: 918-920 (1980)
	AU	Goddard, L.S., "The Computation of Electron Trajectories in Axially Symmetric Fields," <u>Proceedings of the Physical Society</u> 56: 372-378 (1944)
	AV	Gordon, et al., "A Low-Energy Electron Source for Negative Ionization Experiments", <u>International Journal of Mass Spectrometry and Ion Processes</u> , 72:285-297 (1986)
	AW	Henkelman, R.M. and F.P. Ottensmeyer, "An electrostatic mirror," <u>Journal of Physics E: Scientific Instruments</u> 7: 176-178 (1974)
	AX	Herrmannsfeldt, W.B. and Y.T. Yan, "Computer Applied to Particle Accelerator Simulations," <u>AIP Conference Proceedings</u> 260: 142-148 (1992)
	AY	Kang et al., "A Numerical Analysis of the Electric Field and Trajectories with and without the effect of space charge for a field electron source," <u>Proceedings of the 29th International Field Emission Symposium: held at Chalmers University of Technology, Göteborg, Sweden, August 9-13, 1982</u> , Andren, H-O. and H. Nordén et al. (Eds.), Stockholm, Sweden: Almqvist & Wiksell International, pp. 101-110 (1982)
	AZ	Kelly, M.A., "A new electron energy analyzer for electron spectroscopy," <u>Journal of Electron Spectroscopy and Related Phenomena</u> 98-99: 55-66 (1999)
	BA	Kirby, et al., "A CE/ESI-MS Interface for Stable, Low-Flow Operation", <u>Anal. Chem.</u> , 68(24): 4451-4457 (Dec., 1996)
	BB	Kok, "Air Analysis Using Tenax Xollection with Jet-Separator Enrichment and Ion Trap Mass Spectrometric Analysis", <u>J. Am. Soc. Mass Sptrom.</u> , 7: 1172-1176 (1996)
	BC	Orient et al., "Reversal ion source: a new source of negative ion beams," <u>Rev. Sci. Instrum.</u> 56(1): 69-72 (1985)
	BD	Reiche, S., "GENESIS 1.3: a fully 3D time-dependent FEL simulation code," <u>Nuclear Instruments & Methods in Physics Research A</u> 429: 243-248 (1999)
	BE	St.-Germain, "Volatile Organic Compound Analysis by an Inertial Spray Extraction Interface Coupled to an Ion Trap Mass Spectrometer", <u>Anal. Chem.</u> , 67(24): 4536-4541 (Dec. 1994)
	BF	Thompson et al., "Computer simulations of submicron FIB system optics," <u>J. Vac. Sci. Technol. B</u> 1(4): 1125-1128 (1983)
	BG	Tsuge, "Vacuum Nebulizing Interface for Direct Coupling of Micro-Liquid Chromatograph and Mass Spectrometer", <u>Analytical Chemistry</u> , 51(1): 166-169 (Jan., 1979)
	BH	Yamashita, et al., "Electrospray Ion Source. Another Variation on the Free-Jet Theme", <u>J. Phys. Chem.</u> , 88(20): 4451-4459 (1984)
	BI	Yoshida, et al., "Improvement of Vacuum Nebulizing Interface for Direct Coupling Micro-Liquid Chromatograph with Mass Spectrometer and some applications to Polar Natural Organic Compounds", <u>Fresenius Z Anal. Chem.</u> , 311: 674-680 (1982)

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